

REMARKS

Claims 8-13, 16, 19-20, 22-24, 26, and 71-93 are pending. Claims 8, 9-12, 16, 19, 20, 23, and 26 have been amended. Claims 71-93 are new in which claims 79-89 were redrafted from cancelled claims. Claims 1-7, 14-15, 17-18, 21, 25, 27-70 have been cancelled without disclaimer or prejudice. The right to file continuation applications encompassing the cancelled subject matter is reserved. Unless otherwise mentioned herein, paragraph numbers refer to the application as filed originally and amended on August 23, 2006.

Support for the amendments to claims 8, 9-12, 16, 19, 20, 23, and 26 and new claims 71-93 can be found throughout the specification including the Drawings and claims as filed originally. Particular support for each claim amendment and new claim is outlined below.

Particular support for recitation of an insulator positioned between the first and second heat sources in amended claim 8 can be found, for example, in Fig. 3A and 3B (showing insulator 107, see ¶ [0053]), ¶ [0067], and ¶ [0073] (disclosing that the insulator can be a solid, liquid or a gas, for instance).

Pending claims 9-12, 16, 19-20, 23, and 26 have been amended to improve claim dependency and clarity.

New claims 71-72 find specific support in claims 9, 10, and 12 as filed originally and ¶ [0067], disclosing, among other things, that at least one heat source can include a combination of a heating and cooling unit.

New claims 73-77 featuring an opening within the apparatus can be found at ¶ [0067], and Fig. 3A, disclosing, among other things, opening 111 defined by the heat sources 101 and 102 and the insulator 107 in which the opening is adapted to receive a reaction vessel.

Support for new claim 78 can be found in Fig. 3A, for instance, showing a reaction vessel that is configured as a straight cylinder or tube.

New claims 79-80 were rewritten using language from claims 66 and 67, (now cancelled), respectively.

New claims 81-82 were rewritten using language from claims 21 and 25 (now cancelled), respectively.

New claims 83-86 were redrafted using language from claims 27, 28, 29 and 30, (now cancelled), respectively.

New claims 87-88 were rewritten using language from claims 31 and 32, (now cancelled), respectively.

New claim 89 was redrafted using language from claim 68 (now cancelled).

New claim 90 finds particular support in Fig. 3A, for instance, showing a gap or space between the reaction vessel and the second heat source.

New independent claim 91 uses language from pending claim 73 to recite an apparatus with an opening defined by a plurality of heat sources and an insulator, and in which the first and second heat sources are in contact with the opening and further wherein at least one of the heat sources comprises a heating unit and a cooling unit.

New claim 92 was redrafted using language from pending claim 74 to recite an apparatus with an opening that comprises a closed bottom end within the first heat source.

New independent claim 93 uses language from pending claim 71 to recite an apparatus in which at least one of the heat sources comprises a heating unit and a cooling unit.

No new matter has been added by virtue of the claim amendments or new claims.

Interview conducted on 7 January 2008

Applicants express thanks to the Examiners Pande and Stzelecka for considering possible amendments to the claims. The present submission is believed to be in compliance with guidance provided by the Examiners during the interview.

Priority Under 35 USC §119

Applicants respectfully request that the Office acknowledge priority for all the pending claims to the PCT/KR02/01728 application and Korean priority application Nos. 10-2001-57040 and 10-2001-66943. Basis for recognition of the priority claim has been set forth in the Response To Final Office Action dated 31 October 2008 submitted with the RCE.

Claim amendments and new claims

Applicants believe amended claim 8 and claims dependent therefrom are particularly distinguishable over the cited references including Hunicke-Smith and Benett. New claims 89 and 90 are also believed to be distinguishable over these references.

Conclusion

Applicants believe that no further fee is due to consider the present amendment. Nevertheless, the Director is hereby authorized to charge or credit any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. **502486**.

Dated: January 18, 2008

Respectfully submitted,

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